

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2002

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604779F Tactical Data Link Interoperability

PROJECT

2189

COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2189 JINTACCS	5,593	5,621	0	0	0	0	0	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

For FY 2003, #652189, JINTACCS efforts transferred to PE 0207434F, Link 16 Support and Sustainment, #655049, JINTACCS, in order to consolidate the three Link 16 infrastructure PEs into one and manage tactical data links as an enterprise.

(U) A. Mission Description

The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program is a Joint Staff directed program that provides the sole Air Force (AF) activity responsible for ensuring the interoperability of AF Tactical Data Links (TDLs) [including, but not limited to Tactical Digital Information Links (TADILs) and Variable Message Formats (VMF)] and United States Message Text Format (USMTF) systems with the associated Joint and allied/coalition systems. The requirements for the program are delineated in DoDD 4630.5, DoDD 4630.8, CJCSI 6212.01B, and AFI 33-108. The program ensures platform/system interoperability through the development and management of the joint/combined architecture, tactical information exchange requirements (IERs), interface definitions and protocols, platform/system implementations, employment concepts, and operating procedures. This includes the coordination of all TDL and USMTF message standards configuration management, platform/system interoperability assessments and interoperability certification testing. Air Force platforms/systems participating in, and affected by, this program include: Airborne Warning and Control System (AWACS); Airborne Battlefield Command and Control Center (ABCCC); Modular Control Element (MCE); Air Operations Center (AOC); Joint Surveillance Target Attack Radar System (JSTARS); F-15 A/B/C/D/E; F-16 B30/40/50; F-22; A/OA-10; Joint Strike Fighter (JSF); Airborne Laser (ABL); B-1; B-2; B-52; F-117; RC-135; Regional/Sector Air Operations Center (RAOC/SAOC), Command & Control Information Processing System (C2IPS); Space Based Infrared System (SBIRS); Iceland Air Defense System (IADS); Air Support Operations Center (ASOC); and Tactical Air Control Parties (TACPs), Theater Battle Management Corps System (TBMCS), Contingency Automated Theater Automated Planning System (CTAPS), Combat Intelligence System (CIS), Air Defense System Integrator (ADSI), Distributed Common Ground System (DCGS), North American Aerospace Defense Command (NORAD)/United States Space Command (USSPACECOM) Warfighting Support System (N/UWSS), Region/Sector Air Operations Center (R/SAOC) AWACS Digital Information Link, and Global Command and Control System (GCCS)-Air Force (GCSS-AF). The Air Force JINTACCS program supports the Assistant Secretary of Defense (ASD) directive on harmonization of US and NATO messages (e.g., ATO and ACO).

Project 2189

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE February 2002
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
05 - Engineering and Manufacturing Development	0604779F Tactical Data Link Interoperability	2189
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands)</u>		
(U) \$437	Continue Interoperability Certification Testing - Specific platforms for FY01 will be determined based on initial Link 16 message implementation, software upgrade, and system modification schedules.	
(U) \$1,766	Continue US Message Text Formats Management	
(U) \$3,390	Continue Tactical Data Link Management and Architecture Development - Support multi TADIL & VMF meetings and working groups - Consultations regarding implementation and interoperability with the F-16 - Consultations regarding software updates and interoperability with the F-15C, E-3, E-8, ABCCC, CRC/CRE	
(U) \$5,593	Total	
(U) <u>FY 2002 (\$ in Thousands)</u>		
(U) \$646	Continue Interoperability Certification Testing. Specific platforms for FY 02 will be determined based on Link 16 message implementation, software upgrade, and system modification	
(U) \$1,711	Continue US Message Text Formats Management and Updates - Support Joint, Allied/Coalition meetings and working groups - Support technology maturation for joint standards and DoD policy	
(U) \$3,264	Continue Tactical Data Link Management and Architecture Development. - Support multi TADIL and VMF meetings and working groups - Consultations regarding implementation and interoperability with the F-16, B-52, B-1, B-2, F-117 - Consultations regarding software updates and interoperability with the F-15C, E-3, E-8, ABCCC, CRC/CRE, TULIP	
(U) \$5,621	Total	
(U) <u>FY 2003 (\$ in Thousands)</u>		
(U) \$0	Continue Interoperability Certification Testing. Specific platforms for FY 02 will be determined based on Link 16 message implementation, software upgrade, and system modification	
(U) \$0	Continue US Message Text Formats Management and Updates - Support Joint, Allied/Coalition meetings and working groups - Support technology maturation for joint standards and DoD policy	
Project 2189	Page 2 of 7 Pages	Exhibit R-2 (PE 0604779F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE February 2002																																																												
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604779F Tactical Data Link Interoperability	PROJECT 2189																																																												
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2003 (\$ in Thousands) Continued</u></p> <p>(U) \$0 Continue Tactical Data Link Management and Architecture Development.</p> <ul style="list-style-type: none"> - Support multi TADIL and VMF meetings and working groups - Consultations regarding implementation and interoperability with the F-16, B-52, B-1, B-2, F-117 - Consultations regarding software updates and interoperability with the F-15C, E-3, E-8, ABCCC, CRC/CRE, TULIP <p>(U) \$0 Total</p> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is in budget activity 5 - Engineering and Manufacturing Development, because it is designed to improve the interoperability of Tactical Command and Control (C2) Systems used in support of joint operations.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 55%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 15%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">5,825</td> <td style="text-align: center;">5,677</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">5,825</td> <td style="text-align: center;">5,677</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Congressional/General Reductions</td> <td style="text-align: center;">-54</td> <td style="text-align: center;">-56</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td style="text-align: center;">-178</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: center;">5,593</td> <td style="text-align: center;">5,621</td> <td style="text-align: center;">0</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td colspan="5" style="padding-top: 10px;"> (U) <u>Significant Program Changes:</u> None </td> </tr> </tbody> </table>				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	5,825	5,677	0	TBD	(U) Appropriated Value	5,825	5,677			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-54	-56			b. Small Business Innovative Research	-178				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram					e. Rescissions					(U) Adjustments to Budget Years Since FY 2002 PBR					(U) Current Budget Submit/FY 2003 PBR	5,593	5,621	0	TBD	(U) <u>Significant Program Changes:</u> None				
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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
05 - Engineering and Manufacturing Development					0604779F Tactical Data Link Interoperability					2189		
(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u>												
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>			
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>				
(U) AF RDT&E												
(U) Other APPN												
(U) <u>E. Acquisition Strategy</u>												
As the Air Force lead agent for a jointly directed program, JINTACCS provides level of effort technical support for increasing interoperability of AF programs through message text and data link standards implementation.												
(U) <u>F. Schedule Profile</u>												
	<u>FY 2001</u>			<u>FY 2002</u>			<u>FY 2003</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) F-16 - OFP M-3 baseline implementation and interoperability X												
(U) E-8 - Complete ASU Spiral 1 Implementation/Interoperability X												
(U) AOC - Complete baseline Implementation/Interoperability X												
(U) F-15C - Interoperability consultation for Software upgrades. X												
(U) F-16 - Interoperability consultation for Software upgrades. X												
(U) E-3 - Interoperability consultation for Software upgrades. X												
(U) E-8 - Interoperability consultation for Software upgrades. X												
(U) ABCCC - Interoperability consultation for Software upgrades. X												
(U) CRC/CRE - Interoperability consultation for Software upgrades. X												
(U) AOC - Interoperability consultation for Software upgrades. X												
(U) F-15E - Interoperability consultation for Software upgrades. X												
(U) ABL - Interoperability consultation for Software upgrades. X												
(U) B-1 - Interoperability consultation for Software upgrades. X												
(U) B-2 - Interoperability consultation for Software upgrades. X												
(U) B-52 - Interoperability consultation for Software upgrades. X												
(U) F-22 - Interoperability consultation for Software upgrades. X												
(U) F-117 - Interoperability consultation for Software upgrades. X												
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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
05 - Engineering and Manufacturing Development					0604779F Tactical Data Link Interoperability					2189		
(U) <u>F. Schedule Profile Continued</u>												
		<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Joint StrikeFighter (JSF) - Interoperability consultation for Software						X						
(U) R/SAOC - Interoperability consultation for Software upgrades.				X								
(U) IADS - Interoperability consultation for Software upgrades.						X						
(U) TACP/ASOC - Interoperability consultation for Software upgrades.						X						
(U) Interoperability Certification Testing	X											
(U) (Passed Joint and CAF Interoperability)					X							
(U) - MCE P3I												
(U) CAF						X						
(U) Joint							X					
(U) - JSTARS												
(U) CAF								X				
(U) Joint							X					
(U) - E-3 AWACS			X									
(U) CAF					X							
(U) Joint						X						
(U) - F-15C	X											
(U) CAF				X								
(U) Joint				X								
(U) - F-15E	X											
(U) CAF				X								
(U) Joint							X					
(U) - IADS					X							
(U) CAF							X					
(U) Joint					X							
(U) - ABCCC			X									
(U) CAF				X								
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(U) <u>F. Schedule Profile Continued</u>														
					<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>	
					1	2	3	4	1	2	3	4	1	2
(U)	Joint								X					
(U)	- RADIL						X							
(U)	CAF												X	
(U)	Joint								X					
(U)	- ABL												X	
(U)	CAF												X	
(U)	Joint												X	
(U)	- F-16							X						
(U)	CAF									X				
(U)	Joint							X						
(U)	- TACP								X					
(U)	CAF									X				
(U)	Joint												X	
(U)	- ADSI						X							
(U)	Joint						X							
(U)	OPFAC INSTALL/INTEGRATION												X	
(U)	- F-15E Complete								X					
* Denotes completed event														
X Denotes planned event														

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2002				
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT			
05 - Engineering and Manufacturing Development					0604779F Tactical Data Link Interoperability				2189			
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>												
					<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>			
(U) Interoperability Certification Testing					437		646		0			
(U) US Message Text Formats Management					1,766		1,711		0			
(U) Tactical Data Links Management					3,390		3,264		0			
(U) Total					5,593		5,621		0			
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>												
(U) <u>Performing Organizations:</u>												
<u>Contractor or</u>		<u>Contract</u>										
<u>Government</u>		<u>Method/Type</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>				
<u>Performing</u>		<u>or Funding</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>		
<u>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2001</u>		
<u>Product Development Organizations</u>								<u>Budget</u>		<u>Budget</u>		
<u>Support and Management Organizations</u>								<u>FY 2001</u>		<u>FY 2002</u>		
								<u>FY 2003</u>		<u>Budget to</u>		
								<u>FY 2003</u>		<u>Complete</u>		
										<u>Total</u>		
										<u>Program</u>		
MITRE		CPAF		OCT 72		35,228		2,984		2,957		
B3H		CPFF		MAY 97		2,494		1,837		1,919		
COMPTEK		CPAF		OCT 92		3,728		0		0		
HTI		CPAF		OCT 94		1,300		0		0		
Prog Office		Various		Various		243		335		335		
AF Participating Test Unit		PO/616		OCT 97		1,242		437		410		
(PTU)												
<u>Test and Evaluation Organizations</u>												
					<u>Total Prior</u>		<u>Budget</u>		<u>Budget</u>		<u>Budget</u>	
<u>Subtotals</u>					<u>to FY 2001</u>		<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
											<u>Budget to</u>	
											<u>Complete</u>	
											<u>Total</u>	
											<u>Program</u>	
Subtotal Product Development					44,235		5,593		5,621		TBD	
Subtotal Support and Management					44,235		5,593		5,621		TBD	
Subtotal Test and Evaluation												
Total Project					44,235		5,593		5,621		TBD	
Project 2189												
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